

CLAIMS

1. A method for exchanging information between communication devices performing wireless communication, comprising:

creating an electrical connection between first and second communication devices that are to be parties to wireless communications between one another;

generating communication information for specifying the parties to the wireless communications;

exchanging the communication information between the first and second communication devices via the electrical connection;

adding the communication information to the wireless communications transmitted between the first and second communication devices.

2. The method according to claim 1, wherein the communication information is characteristic identification information of the first and second communication devices.

3. The method according to claim 1, wherein the communication information is a predetermined password.

4. The method according to claim 3, wherein the predetermined password is a random number.

5. The method according to claim 1, wherein the communication information is information indicating a communication frequency used only by the first and second communication devices.

6. The method according to claim 1, wherein the

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communication information is information indicating a wireless channel used only by the first and second communication devices.

7. The method according to claim 1, further comprising:

creating an electrical connection sequentially between the first communication device and each one of a plurality of communication devices that are to be parties to wireless communications with the first communication device;

generating communication information for specifying each one of the parties to the wireless communications, the communication information for each party being different from the communication information for the other parties; and

exchanging the communication information for each party between the first communication device and the communication device for that party via the electrical connection between the first communication device and the communication device for that party.

8. The method according to claim 1, further comprising:

providing a relay station;

creating an electrical connection between the first communication device and the relay station;

creating an electrical connection between the second communication device and the relay station; and

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exchanging the communication information between the first communication device and the second communication device via the relay station and the electrical connections.

9. The method according to claim 8, further comprising:

capturing the communication information for specifying the parties to the wireless communications between the first and second communication devices in a third communication device;

exchanging the communication information between the third communication device and the second communication device; and

notifying the first communication device from the third communication device that the exchange of the communication information with the second communication device has been completed.

10. The method according to claim 1, further comprising:

storing the communication information for specifying the parties to the wireless communications.

11. The method according to claim 8, further comprising:

storing the communication information for specifying the parties to the wireless communications in the relay station.

12. An information communication system for

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performing wireless communication, comprising:

a first communication device having a first connector;

a second communication device having a second connector adapted for operative connection to the first connector to form an electrical connection between the first and second communication devices, the first and second communication devices to be parties to wireless communications between one another;

a generating unit operable to generate communication information for specifying the parties to the wireless communications; and

exchanging means for exchanging the communication information between the first communication device and the second communication device via the electrical connection.

13. The information communication system according to claim 12, wherein the communication information is characteristic identification information of the first communication device and the second communication device.

14. The information communication system according to claim 12, wherein the communication information is a predetermined password.

15. The information communication system according to claim 14, wherein the predetermined password is a random number.

16. The information communication system

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according to claim 12, wherein the communication information is information indicating a communication frequency used only for wireless communication between the first communication device and the second communication device.

17. The information communication system according to claim 12, wherein the communication information is information indicating a channel used only for wireless communication between the first communication device and the second communication device.

18. The information communication system according to claim 12, further comprising:

a plurality of communication devices each having a connector adapted for operative connection to the first connector to form sequential electrical connections between the first communication device and each one of the communication devices that are to be parties to wireless communications with the first communication device, wherein

the generating unit is operable to generate communication information for specifying each one of the parties to the wireless communications, the communication information for each party being different from the communication information for the other parties; and

the exchanging means exchanges the communication information for each party between the first communication device and the communication device for that party via the electrical connection between the first communication device and the communication device for that

party.

19. The information communication apparatus according to claim 12, further comprising:

a relay station having one connector adapted for operative connection to the first connector to form a first electrical connection between the first communication device and the relay station, and another connector adapted for operative connection to the second connector to form a second electrical connection between the second communication device and the relay station, wherein

the exchanging means exchanges the communication information between the first communication device and the second communication device via the relay station and the electrical connections.

20. The information communication apparatus according to claim 19, wherein

the relay station captures the communication information for specifying the parties to the wireless communications between the first communication device and the second communication device and exchanges the communication information with the second communication device, after which, via the relay station, the exchanging means notifies the first communication device that the exchange of the communication information with the second communication device has been completed.

21. The information communication apparatus according to claim 12, further comprising:

a storing unit operable to store the communication information for specifying the parties to the wireless communications.

22. The information communication apparatus according to claim 19, wherein the communication information for specifying the parties to the wireless communications is stored in the relay station.

23. A computer-readable recording medium recorded with an information exchange processing program to be executed by a computer, the program comprising:

generating communication information for specifying parties to wireless communications between first and second communication devices when an electrical connection is established between the first and second communication devices;

exchanging the communication information between the first and second communication devices via the electrical connection; and

adding the communication information to the wireless communications transmitted between the first and second communication devices.

24. The computer-readable recording medium according to claim 23, wherein the communication information is characteristic identification information of the first and the second communication devices.

25. The computer-readable recording medium according to claim 23, wherein the communication information

is a predetermined password.

26. The computer-readable recording medium according to claim 25, wherein the predetermined password is a random number.

27. The computer-readable recording medium according to claim 23, wherein the communication information is information indicating a communication frequency used only by the first and second communication devices.

28. The computer-readable recording medium according to claim 23, wherein the communication information is information indicating a wireless channel used only by the first and second communication devices.

29. The computer-readable recording medium according to claim 23, wherein, when an electrical connection is sequentially created between the first communication device and each one of a plurality of communication devices that are to be parties to wireless communications with the first communication device, the generating step includes generating communication information for specifying each one of the parties to the wireless communications, the communication information for each party being different from the communication information for the other parties, and the exchanging step includes exchanging the communication information for each party between the first communication device and the communication device for that party via the electrical connection between the first communication device and the communication device for that



party.

30. The computer-readable recording medium according to claim 23, wherein the exchanging step includes:

exchanging the communication information between the first communication device and the second communication device via a relay station forming a first electrical connection with the first communication device and a second electrical connection with the second communication device.

31. The computer-readable recording medium according to claim 30, the program further comprising:

capturing the communication information for specifying the parties to the wireless communications between the first and second communication devices in the relay station;

exchanging the communication information between the relay station and the second communication device; and

notifying the first communication device that the exchange of the communication information with the second communication device has been completed.

32. The computer-readable recording medium according to claim 23, the program further comprising:

storing the communication information for specifying the parties to the wireless communications.

33. The computer-readable recording medium according to claim 30, the program further comprising:

storing the communication information for specifying the parties to the wireless communications in the relay station.

34. A method for exchanging information between a plurality of communication devices performing wireless communication, comprising:

creating an electrical connection sequentially between pairs of the plurality of communication devices, the pairs of communication devices to be parties to wireless communications with one another;

generating communication information for specifying each pair of parties to wireless communications, the communication information for each pair of parties being different from the communication information for the other pairs of parties; and

exchanging the communication information for each pair of parties between a communication device for a first party in the pair and a communication device for a second party in the pair via the electrical connection between the communication device for the first party in the pair and the communication device for the second party in the pair.

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